

IN THE CLAIMS

Claim 1 (original): A method of providing a product, the method comprising:

- providing a means having an absorption coefficient, μ_a , and a scattering coefficient, μ_s , at a predetermined wavelength, wherein $\mu_s > (1/10) * \mu_a$,

- providing radiation comprising radiation at the predetermined wavelength to a predetermined volume at or near an interface or surface of the means.

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Claim 2 (original): A method according to claim 1, wherein the step of providing the means comprises providing the means with a predetermined substance at the interface and/or in the predetermined volume and wherein the step of providing the radiation comprises the substance absorbing radiation at the predetermined wavelength and converting the radiation to heat in the means.

Claim 3 (original): A method according to claim 2, further comprising the step of providing a second means adjacent to and abutting the interface, the second means having an absorption coefficient μ_{a2} and a scattering coefficient μ_{s2} at the predetermined wavelength.

Claim 4 (original): A method according to claim 3, wherein the step of providing the second means comprises providing a second means with $\mu_{a2} < \mu_a$ and wherein the step of providing the radiation comprises providing the radiation to the predetermined volume through the second means.

Claim 5 (original): A method according to claim 3, wherein the

step of providing the second means comprises providing a second means with $\mu s2 > (1/10) * \mu a$ and wherein the step of providing the radiation comprises providing the radiation to the predetermined volume along a plane of the interface.

Claim 6 (original): A method according to claim 3, wherein the step of providing the radiation comprises melting the means in the predetermined volume so as to weld the means and the second means to each other.

Claim 7 (original): A method according to claim 3, the method comprising the further step of providing a heat activatable adhesive at the interface between the means and the second means, and wherein the step of providing the radiation comprises heating the adhesive so as to attach the means to the second means.

Claim 8 (original): A method according to claim 3, wherein the step of providing the second means comprises providing the second means attached to the means, and wherein the step of providing the radiation comprises heating the predetermined volume so as to melt material in the predetermined volume and at the interface in order to facilitate detachment of the means from the second means.

Claim 9 (original): A method according to claim 2, wherein the step of providing the radiation comprises evaporating and removing part of the means.

Claim 10 (original): A method according to claim 2, wherein the step of providing the means comprises providing the means with a substance in the predetermined area and/or on the interface thereof, the substance being adapted to perform an endothermic reaction during the step of providing the radiation.

Claim 11 (original): A method according to claim 1, wherein the step of providing the means comprises providing the means with a substance in the predetermined area and/or on the interface thereof, and wherein the step of providing the radiation comprises the substance absorbing the radiation at the predetermined wavelength and changing a colour of the substance or means.

Claim 12 (original): A method according to claim 1, wherein the step of providing the radiation comprises the means absorbing radiation and changing a surface characteristic thereof at the interface.

Claim 13 (original): A method according to claim 1, wherein the step of providing the radiation comprises a polymer of the means absorbing the radiation at the predetermined wavelength and changing a characteristic thereof.

Claim 14 (original): A method according to claim 1, wherein the means is a homogeneous material having at least substantially the same μ_a and μ_s throughout the means.

Claim 15 (original): A method according to claim 1, wherein the step of providing the means comprises providing a means comprising an upper layer having the absorption coefficient μ_a and a lower layer having the scattering coefficient, μ_s .

Claim 16 (original): A method according to claim 15, wherein the step of providing the means comprises providing the means with the upper layer comprising a substance adapted to convert absorbed radiation to heat.

Claim 17 (original): A method according to claim 15, wherein the step of providing the radiation comprises photo activating a substance in the upper layer.

Claim 18 (original): A method according to claim 1, wherein the step of providing the means comprises providing the means with a predetermined concentration or percentage of a particulate matter having a mean particle size of less than 10 times the predetermined wavelength.

Claim 19 (original): A radiation welded product comprising a first part and a second part welded together, wherein:

- the first part has a high transmission at the predetermined wavelength and
- the second part has an absorption coefficient, μ_a , and a scattering coefficient, μ_s , at the predetermined wavelength, wherein $\mu_s > (1/10) * \mu_a$.

Claim 20 (original): A radiation welded product comprising a first part and a second part welded together, wherein:

- the first part has a high transmission at the predetermined wavelength,
 - the second part has an absorption coefficient, μ_a , at the predetermined wavelength, and
 - the second part has a scattering coefficient, μ_s , at the predetermined wavelength,
- wherein $\mu_s > 0.4 \text{ mm}^{-1}$ and $\mu_a < 4 \text{ mm}^{-1}$.

Claim 21 (currently amended): A radiation welded product according to claim 19 ~~any of claims 19 or 20~~, wherein:

- the first part further has a first scattering coefficient, μ_{s1} , at the predetermined wavelength, and
- the second part has an upper part adjacent to the first part

and a lower part, wherein:

- the upper part having the absorption coefficient, μ_a , and the lower part having a third, respectively, absorption coefficient, μ_{a3} , at the predetermined wavelength, the absorption coefficient, μ_a , being larger than the first and third absorption coefficients, μ_{a1} and μ_{a3} , respectively, and
- the lower part has the scattering coefficient, μ_s , at the predetermined wavelength, the scattering coefficient, μ_s , being higher than the first scattering coefficient, μ_{s1} .

Claim 22 (original): A product according to claim 19, wherein the second part comprises a predetermined concentration of a material having a mean particle size of at the most 10 times the predetermined wavelength.

Claim 23 (original): A method of providing an adhesive element comprising an upper part and a lower part, the upper part being a layer of a pressure sensitive adhesive composition provided on a surface of the lower part, wherein the upper part has an absorption coefficient, μ_a , at a predetermined wavelength, and the lower part has a scattering coefficient, μ_s , at the predetermined wavelength, wherein $\mu_s > (1/10) * \mu_a$, the method comprising:

providing radiation to a first area of the upper part so as to provide a predetermined property of the adhesive in the first area.

Claim 24 (original): A method according to claim 23, wherein the radiation is provided only to the first area.

Claim 25 (original): A method according to claim 23, wherein the lower part comprises, in a volume provided below and corresponding to the first area, the scattering coefficient μ_s , a

scattering coefficient of the remainder of the lower part having a scattering coefficient, μ_{s2} , which is lower than μ_s , wherein radiation is provided to an area of the adhesive exceeding the first area.

Claim 26 (original): A method according to claim 23, wherein $\mu_s > 0.4 \text{ mm}^{-1}$ and $\mu_a < 4 \text{ mm}^{-1}$.

Claim 27 (original): An ostomy product provided by the method of claim 1.

Claim 28 (original): An ostomy product comprising the product according to claim 19.

Claim 29 (original): A radiation welded product according to claim 20, wherein:

- the first part further has a first scattering coefficient, μ_{s1} , at the predetermined wavelength, and
- the second part has an upper part adjacent to the first part and a lower part, wherein:
 - the upper part having the absorption coefficient, μ_a , and the lower part having a third, respectively, absorption coefficient, μ_{a3} , at the predetermined wavelength, the absorption coefficient, μ_a , being larger than the first and third absorption coefficients, μ_{a1} and μ_{a3} , respectively, and
 - the lower part has the scattering coefficient, μ_s , at the predetermined wavelength, the scattering coefficient, μ_s , being higher than the first scattering coefficient, μ_{s1} .

Claim 30 (original): An ostomy product provided by the method of claim 23.